Figures and Illustrations

The full-page illustrations listed below are either embedded in the text or added to the end of each chapter.

The following maps (2-20 through 2-25) show the ring-wide distribution of the magnets, along with the associated CAMAC ramp cards and power supply connections:

Chapter 3: Power Supplies

Main Injector

Ancient History

The Main Injector accelerator replaced the venerable Main Ring, once the most powerful accelerator in the world. The Main Ring, originally designed in the 1960's as a 200 GeV machine, was housed in a four-mile circular tunnel. Two "upstream" machines, the Linac and Booster, accelerated protons to 8 GeV, which was the minimum energy acceptable to Main Ring. After acceleration to 200 GeV in the Main Ring, the beam was extracted, simultaneously, to several experiments external to the ring. Many successive improvements brought the energy of the Main Ring—and the experiments—to 500 GeV.